

ETS Pre-requisite Checklist

The table below identifies major changes incorporated into this document.

Date	Version	Description
7/8/2015	1.0	Initial Draft Version
7/13/2015	1.1	Added: KB3026376 requirement
7/20/2015	1.2	Removed KB2974335/6 since the new KB3026376 rollup has that specific patch included Minor details added to SQL Server, SQL CE, Crystal Reports and installation of ETS.
8/10/2015	1.3	Added: Appendix B – Laptop and Infrastructure Configuration of Port :5555
10/22/2015	1.4	Updated SQL Server SCCM package # (0...85E → 0...896)
3/3/2016	1.5	Minor updates and clarifications

High-level Requirements

Below is a list of high-level requirements to assist your team in the installation of ETS pre-requisites.

**** Please contact the Examiner Help Desk at ehelp@fdic.gov or 1-877-334-2999 with any questions ****

ETS Pre-requisite Installation Checklist

The steps outlined below are specific to FDIC and while applicable to most windows configuration, each machine may vary based on an organization's environment specifics.

**** Field Office Representatives (and other IT specialists) ****

When installing the pre-requisites, **for best results**, we recommend elevating the local user profile to an administrator. Log off/Log on. Then, install all of the pre-requisites as the local user; rather than installing with your own administrator (-d) accounts. Several of the packages that were created (on local SCCM server) require applying specific configurations to the user account and installing with your –d, can result in a variety of errors.

If you are building a new laptop (T450), the standard image should install all of these pre-requisites **except for** SQL Server. **For best results**, we recommend installing SQL Server from Run Advertised Programs (RAP). The **Microsoft SQL Server 2012 Express R2-FDIC2008 – Install (PULL)** package will install SQL 2008 **and** SQL 2012. You **do not** need to install the 2008 installation package first – **SQL Server 2008 Express R2 – FDIC2008 (XP & WIN7) – Install.**

- Install required software:
 - KB3026376 – This hotfix must be installed if running .NET Framework 4.5.2, .NET Framework 4.5.1, or .NET Framework 4.5
 - SCCM package # - 0000089D
 - <https://support.microsoft.com/en-us/kb/3026376#/en-us/kb/3026376>
 - KB2779272 – Update adds support for some new glyphs, features and common fonts in Win 7
 - SCCM package # - 00000762
 - <http://support.microsoft.com/kb/2779272>
 - Crystal Reports SP10 (13.0.10) – 64 bit
 - SCCM package # - 0000078A
 - PDF Net 1.0
 - SCCM package # - 00000561
 - Also can be installed within ETS-FREDDY
 - URL ACL configuration (see *Appendix B*)
 - <http://+:5555/ETSCollaboration/>
 - SCCM package # - 00000623
 - Also can be installed within ETS-FREDDY
 - SQL Server 2012 Express (SP2) with ETS configuration (instance name: 'FDIC2008')
 - SCCM package # - 00000896

Not included in RMS/DCP image – separate installation required
- Install ETS-FREDDY (<https://ets.fdic.gov/ets-freddy/>)
 - Verify pre-install checks are installed successfully.
 - If applicable, run fixes, and then recheck.
 - Visit ETS-FREDDY homepage for more information
- Install ETS
 - Confirm which build to install:
 - PROD – <https://ets.fdic.gov/ets/>
 - ETS-Training – <https://ets.fdic.gov/ets-training/>
 - Verify authentication while connected to PROD

ETS Pre-requisites

Item	Version / Notes	Where it can be found
.NET Framework	4.5.2	http://www.microsoft.com/en-us/download/details.aspx?id=17851
SQL Server 2012 Express	<p>**Not included in RMS/DCP image – separate installation required**</p> <p>Microsoft SQL Server 2012 Express (SP2) - 11.0.5058</p> <p><u>Note:</u> Easier if your run (as the user) from Run Advertised Programs</p>	<p>64 Bit:</p> <p>http://go.microsoft.com/fwlink/?LinkId=186788&clcid=0x409</p>
'FDIC2008' SQL Server Instance Name	<p>**Not included in RMS/DCP image – separate installation required**</p> <p>When installing SQL Server 2012 you need to set the instance name to "FDIC2008".</p> <p>Please also follow additional steps for setup of Filestream and CLR. User in SQL Server Management Studio must also have DBCreator and BulkAdmin privileges to create the ETS database.</p> <p><u>Note:</u> Easier if your run (as the user) from Run Advertised Programs</p>	<p>If installation assistance is needed, please contact:</p> <p>Examiner Help Desk</p> <p>ehelp@fdic.gov</p> <p>1-877-334-2999</p> <p>(or *999)</p>
Microsoft SQL CE - 64bit (you must additionally install the 64bit version for 64bit platforms only)	<p>3.5</p> <p>Note: The 32-bit version of SQL CE is only needed if examiners intend on using ETS-ALERT <u>and</u> ETS side-by-side.</p>	http://www.microsoft.com/download/en/details.aspx?displaylang=en&id=5783
SAP Crystal Reports for Visual Studio 2010 – SP10	<p>Service Pack 10 – 64 bit</p> <p>Note: The 32-bit version of Crystal Reports is only needed if examiners intend on using ETS-ALERT <u>and</u> ETS side-by-side.</p>	http://scn.sap.com/docs/DOC-7824?rid=/webcontent/uuid/d01fdad8-44e5-2d10-61ad-9d2d4158f3a8
Microsoft Visual C++ 2010 Redistributable Package 32 or 64 bit	This library is required for PDFNet to be installed correctly. It should be included with the Win 7 install by default, however, we have seen some state users that needed this package installed in order for PDFNet to be installed successfully.	<p>32 bit: http://www.microsoft.com/en-us/download/details.aspx?id=5555</p> <p>64 bit: http://www.microsoft.com/en-us/download/details.aspx?id=14632</p>
KB2779272 Hotfix	Update adds support for some new glyphs and features in Windows 8 to common fonts in Windows 7 and in Windows Server 2008 R2	http://support.microsoft.com/kb/2779272
KB3026376 Hotfix Rollup	To apply this hotfix, you <u>must</u> have the .NET Framework 4.5.2, the .NET Framework 4.5.1, or the .NET Framework 4.5 installed	https://support.microsoft.com/en-us/kb/3026376#/en-us/kb/3026376
PDFNet	1.0 –driver that assists the library used in converting files to PDF	http://www.pdftron.com/ .
URL / ACL Script for Collaboration	<p>The URLACL is a configuration setting that allows the ETS application to host a web service for local network data collaboration.</p> <p>**Needs to be applied within infrastructure equipment. For example: firewalls, load balancers, NetScalers, Riverbeds, etc.**</p>	<p>Apply configurations via ETS-FREDDY:</p> <p>https://ets.fdic.gov/ets-freddy/</p>

ETS Pre-requisites that should already be installed with Windows 7

One of the following supported operating systems: Microsoft Windows 7 (32 or 64 bit)		
Arial, Times New Roman, Courier & Courier New fonts ---- Note: These are standard Windows fonts, but they must be installed.		
Microsoft Internet Explorer	7.0 or later	
PowerShell	2.0	
Windows Installer	4.5	

Appendix A – SQL Server Installation and ETS/ALERT functionality:

**** Field Office Representatives (and other IT specialists) ****

For best results, we recommend installing SQL Server from Run Advertised Programs (RAP) under the local user profile. The “*Microsoft SQL Server 2012 Express R2-FDIC2008 – Install (PULL)*” package will install SQL 2008 and SQL 2012. You **do not** need to install the 2008 installation package first – “*SQL Server 2008 Express R2 – FDIC2008 (XP & WIN7) – Install.*”

Note: This Appendix is informational only so long as you use RAP to install SQL Server. If you elect to install SQL Server manually, this upgrade process is required so ETS and ETS-ALERT can operate side-by-side. ETS-ALERT has a dependency on SQL CE (Compact) – x64 and x86 – which must be installed before upgrading to 2012.

Please contact the Examiner Help Desk with any questions!

if SQL Server 2008 R2 exists:

- if ALERT is installed then:
 - Upgrade SQL 2008 to SQL 2012.
 - Install ETS
 - Both ALERT and ETS will work.
 - If ALERT DB is ever deleted, it will need to be recreated using the upgrade patch.
 - You will no longer be able to install a new database via the ClickOnce website (<https://ets.fdic.gov/>)
 - unzip upgrade patch – save batch file and SQL file to desktop
 - patch can be acquired from the Examiner Help Desk
 - run batch file
 - confirm run is successful
- if ALERT is not installed then:
 - (Install ETS-ALERT, or....)
 - Upgrade 2008 to 2012.
 - Install ETS.
 - ETS will work correctly
 - Install ETS-ALERT (error message here)
 - You will no longer be able to install a new database via the ClickOnce website (<https://ets.fdic.gov/>)
 - ALERT database will need to be installed using the upgrade patch
 - If ALERT DB is ever deleted, it will need to be recreated using the upgrade patch.

if SQL Server 2008 R2 DOES NOT exist:

- Install SQL Server 2008
 - Verify the SQL Server CE (compact) installation – both 64-bit and 32-bit versions.
- (Install ETS-ALERT, or....)
 - Upgrade 2008 to 2012.

- Install ETS.
 - ETS will work correctly
- Install ETS-ALERT (error message here)
 - You will no longer be able to install a new database via the ClickOnce website (<https://ets.fdic.gov/>)
 - ALERT database will need to be installed using the upgrade patch
 - If ALERT DB is ever deleted, it will need to be recreated using the upgrade patch.

if SQL Server 2012 exists ONLY:

- Uninstall and follow previous steps for "if SQL 2008 R2 does not exist"

Appendix B – Laptop and Infrastructure Configuration of Port :5555:

Central Peer uses a unique method to communicate with its end user's. Currently, TCP traffic on port 5555 needs to be able to communicate with the Central Peer PROD endpoint (<https://etspsvc.fdic.gov:5555>). There are multiple avenues in which you can direct traffic on the computer. To configure this port, you'll need to run the following script as an administrator:

```
@echo off
set type=BUILTIN
set group=USERS
call :concat %type% %group%
netsh http del urlacl url=http://+:5555/ETSCollaboration > nul:
netsh http add urlacl url=http://+:5555/ETSCollaboration user="%fullGroupName%" > nul:
if %ERRORLEVEL% == 1 goto error
netsh http show urlacl
pause
goto end
:error
echo.
echo Error creating new url acl - are you running as admin?
echo.
goto end
:concat
set fullGroupName=%~1%~2
:end
```

It should also be noted that port 5555 needs to be open on all infrastructure equipment within a network. This should not be limited to laptops, but additional equipment – such as firewalls, load balancers, NetScalers, Riverbeds, etc. – are also advised to be configured.